Jameco Part number 139555

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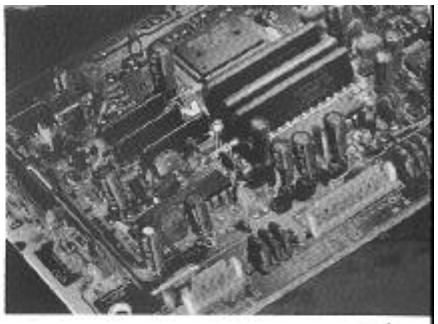
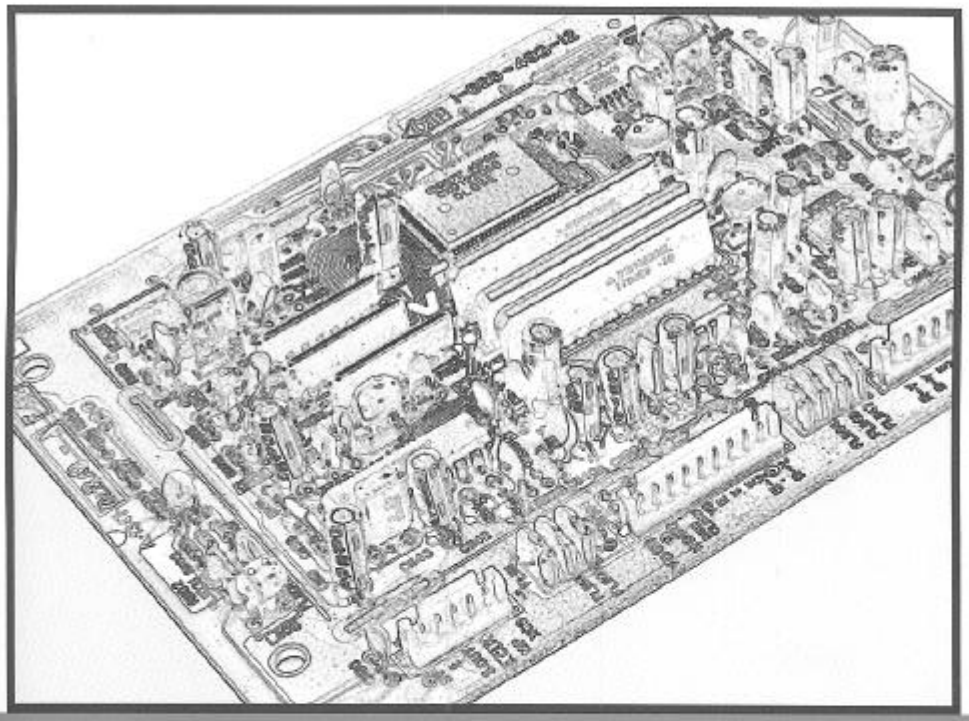


From the Engineers of
Howard W. Sams & Company

SEMICONDUCTOR
CROSS REFERENCE BOOK
Fourth Edition



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How To Use This Book

To find a suitable replacement for a semiconductor, follow these simple steps:

1 **Locate the part number stamped on the part** you wish to replace, or find the part number in a parts list.

2 **Look up the old part number in SEction 1** of this cross-reference. To the right of the number will be a replacement code/block number.

3 **Look up the replacement code in Section 2** (pages identified with black bars). To find right, find part numbers of suitable replacements from NTE, ECG, Radio Shack, and Thompson Consumer Electronics.

Other Important Information

The engineering staff of Howard W. Sams & Company has assembled this cross-reference guide to help you find replacements or substitutions for more than 490,000 semicondcutors. It has been complied from manufacturer's data and from the analysis of consumer electronics devices for PHOTOFACT(R) service data, which has been relied upon since 1946 by service technicians worldwide. Here are some important notes to help you use the two sections of this book effectively.

Section 1---Original Device Types

This section lists device types in alphanumeric order by manufacturer's part number, type number, or other identification, including numbers from the U.S., Europe, and the Far East. At the right of the part number is a replacement code that you will use to look up replacements in section 2.

We have included part numbers for which alternates have not yet been identified from NTE, ECG, Radio Shack, or TCE. For these items, the abbreviation "OEM" appears at the right of the part number. Contact the original equipment manufacturer for appropriate replacements for these parts. For your convenienve, a list of manufacturers' addresses is provided.

Occasionally you will find the same part number listed twice. This is because different manufacturers have used the same part number for different devices. In these cases, we provide identifying notes (device type, manufacturer, or color) in parantheses, following the part number. For example, AR-31 (DIO) is the part number for a diode, and AR-31 (XSTR) is the part number for a transistor.

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Section 2---Replacements

This section provides substitutions and replacements for the semiconductors listed in section 1. The data for this cross-reference was developed from the application parameters found during our PHOTOFACT(R) analysis. Using manufacturer's specifications and their suggested replacements, we have compiled the most complete replacement guide available.

Some of the replacement numbers are followed by the letter N and another number. These notations provide additional information about the use of the recommended replacement. The key to these notes is as follows:

N1	Two required, connect in series--anode to anode.
N2	Two required, connect in series--cathode to cathode.
N3	Two required, connect in series--anode to cathode.
N4	Caution: Replacement device threads may differ from the original.
N5	Four required, connect as in original circuit.
N6	Five required, connect as in original circuit.
N7	Six required, connect as in original circuit.
N8	Seven required, connect as in original circuit.
N9	Eight required, connect as in original circuit.
*	Lead configuration may vary from original.
%	Use insulating hardware supplied with replacement.

Some manufacturers make modules of discrete components (transistor, resistors, and capacitors) dipped into potting compound. The modules may be completely encapsulated or may have one or more discrete components exposed. The ICs listed as substitutes for these modules are electrically suitable replacements but may not have the same pin-basing arrangement.

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A complete guide to semiconductor replacement and substitutions from the makers of PHOTOFACT® service documentation.

More than 490,000 part numbers, type numbers, and other identifying numbers listed.

Includes part numbers for the United States, Europe, and the Far East.

Covers all major types of semiconductors: bipolar transistors, FETs, diodes, rectifiers, ICs, SCRs, LEDs, modules, and thermal devices.

Replacement for NTE, ECG, Radio Shack, and TCE — four cross references in one!

Up-to-date list of original equipment manufacturers.

The most comprehensive replacement data available for engineers, technicians, and all those who work with semiconductors.

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